

Title (en)

TARGET TRACKING DEVICE COMPRISING A PHOTODETECTOR WITH QUADRANTS

Title (de)

ZIELVERFOLGUNGSVORRICHTUNG MIT EINEM FOTODETEKTOR MIT QUADRANTEN

Title (fr)

DISPOSITIF DE SUIVI DE CIBLE COMPRENANT UN PHOTODÉTECTEUR À QUADRANTS

Publication

EP 3685179 A1 20200729 (FR)

Application

EP 18792854 A 20180919

Priority

- FR 1700947 A 20170919
- EP 2018075367 W 20180919

Abstract (en)

[origin: WO2019057783A1] The present invention concerns a target tracking device (2), the device comprising an optical system (4) and a photodetector (6) with quadrants (Q1-Q4), wherein the optical system (4) is configured to project a light beam coming from the target onto a spot on at least one of the quadrants (Q1-Q4), and the photodetector (6) is configured to estimate a current position of the spot by weighting light energies received by the quadrants (Q1-Q4). The optical system (4) comprises an optical device (10) configured in order, when the spot is entirely contained in just one of the quadrants (Q1-Q4), to enlarge the spot. The invention also concerns a tracking method capable of being implemented by this tracking device.

IPC 8 full level

G01S 3/786 (2006.01)

CPC (source: EP IL KR RU US)

G01J 1/20 (2013.01 - RU); **G01S 3/783** (2013.01 - US); **G01S 3/784** (2013.01 - IL KR); **G01S 3/786** (2013.01 - EP IL KR RU); **G01S 7/4802** (2013.01 - RU); **G01S 7/481** (2013.01 - RU); **G01S 7/4816** (2013.01 - IL KR); **G01S 17/66** (2013.01 - RU US); **G01S 17/88** (2013.01 - US); **G01S 3/784** (2013.01 - EP); **G01S 7/4816** (2013.01 - EP)

Citation (search report)

See references of WO 2019057783A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3071322 A1 20190322; FR 3071322 B1 20191011; CA 3076400 A1 20190328; CA 3076400 C 20201124; EP 3685179 A1 20200729; IL 273383 A 20200531; KR 102154780 B1 20200910; KR 20200054279 A 20200519; RU 2733804 C1 20201007; US 11099274 B2 20210824; US 2020386891 A1 20201210; WO 2019057783 A1 20190328

DOCDB simple family (application)

FR 1700947 A 20170919; CA 3076400 A 20180919; EP 18792854 A 20180919; EP 2018075367 W 20180919; IL 27338320 A 20200318; KR 20207010879 A 20180919; RU 2020112492 A 20180919; US 201816648617 A 20180919